SHARP SERVICE MANUAL

S03B8QT-15XW/

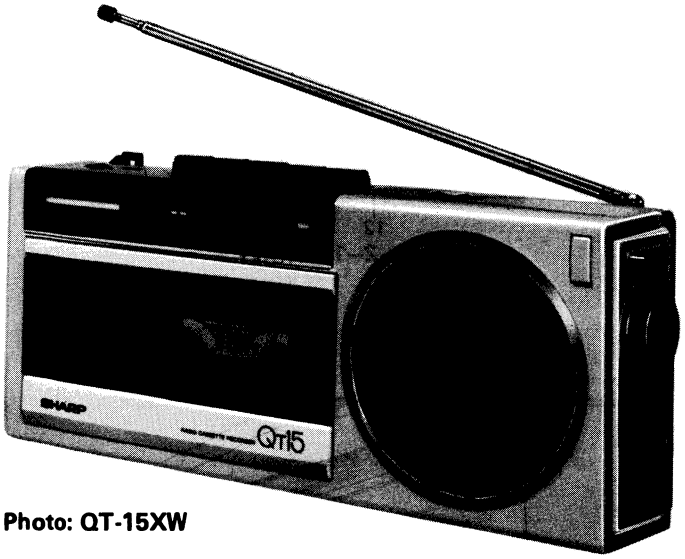


Photo: QT-15XW

QT-15XW
QT-15XR
QT-15XB
QT-15X(BK)

In the interests of user-safety the set should be restored to its original condition and only parts identical to those specified be used.

SPECIFICATIONS

GENERAL DESCRIPTION

Power source:	AC 240V, with AC adaptor (EP-15A)
(Australia only)	DC 9V (UM/SUM-3 or R6 x 6)
Power source:	AC 110V ~ 127V/220V ~ 240V, 50/60Hz, with AC adaptor (EP-15X)
	DC 9V (UM/SUM-3 or R6 x 6)
Speaker:	8cm (3-1/8"), permanent dynamic speaker
Output power:	PMPO; 3.5W(AC operation)
	MPO; 2.6W(AC operation)
	RMS; 1.5W (DC operation, 10% distortion)
Semiconductors:	3 ICs, 1 transistor
	4 diodes
Dimensions: Width;	272mm(10-11/16")
Height;	114mm(4-1/2")
Depth;	62mm (2-7/16")
Weight:	1.1 kg (2.4 lbs.) without batteries

TAPE RECORDER SECTION

Tape:	Compact cassette tape
Frequency response:	100 ~ 8,000Hz
Signal/noise ratio:	38dB
Output impedance:	Earphone; 6 ~ 32 ohms

RADIO SECTION

Frequency range:	AM; 526.5 ~ 1,606.5kHz
	FM; 87.6 ~ 108MHz

Specifications for this model are subject to change without prior notice.

SHARP CORPORATION OSAKA, JAPAN

FOR A COMPLETE DESCRIPTION OF THE OPERATION OF THIS UNIT, PLEASE REFER TO THE OPERATION MANUAL.

NAMES OF PARTS

1. Volume Control
2. Stop/Eject Button
3. Fast Forward Button
4. Rewind Button
5. Play Button
6. Record Button
7. Telescopic Rod Antenna
8. Mode Selector
9. Built-in Microphone
10. Tuning Control
11. Speaker
12. Cassette Compartment
13. Carrying Belt
14. Earphone Jack
15. External DC Power Input Jack
16. Battery Compartment

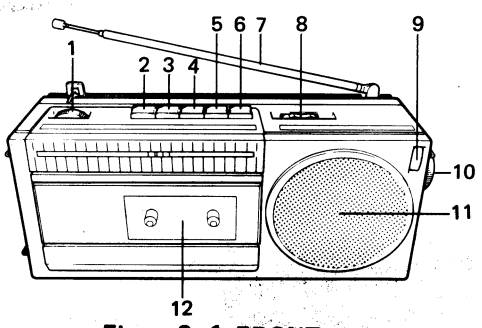


Figure 2–1 FRONT

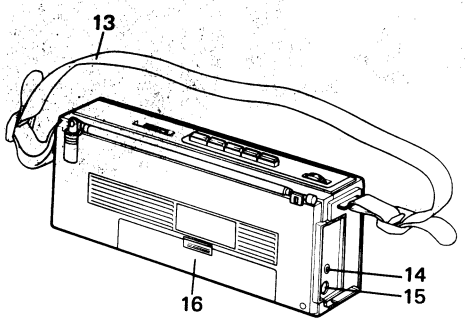


Figure 2–2 REAR

DISASSEMBLY

Caution:
Prior to the disassembly, be sure to remove the AC adaptor, battery and cassette tape from the unit.

[A] REMOVAL OF FRONT CABINET
(Refer to Figures 2–3 and 2–4.)

1. Remove the tuning control knob.
2. Remove five screws from the rear cabinet. (Two of them are in the battery case.)
3. Push the stop/eject button to open the cassette holder.
4. Withdraw the front cabinet by holding its both sides. At this time, disconnect two lead wires from the speaker.

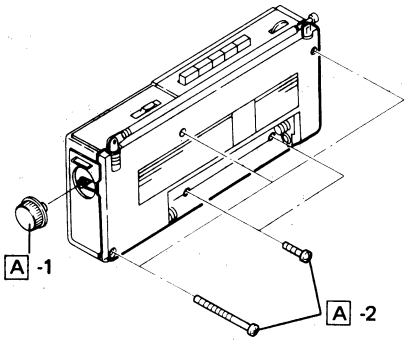


Figure 2–3

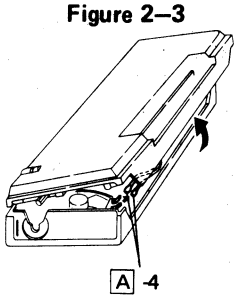


Figure 2–4

[B] REMOVAL OF MECHANISM BLOCK
(Refer to Figure 2–5.)

1. Remove two screws from the mechanism block and draw out the meckanism block.
2. Disconnect one socket from the audio P.W.B.

[C] REMOVAL OF AUDIO P.W.B. AND TUNER P.W.B.
(Refer to Figure 2–5.)

1. Remove one screw from the audio P.W.B.
2. Romove one screw from the frame. Then the audio P.W.B. and tuner P.W.B. can be removed from the rear cabinet.

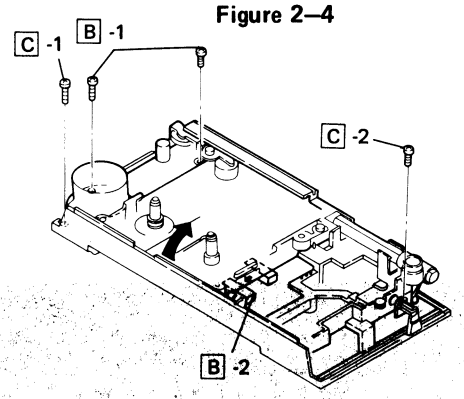


Figure 2–5

MECHANICAL ADJUSTMENT

TORQUE CHECK AT PLAY, FAST FORWARD AND REWIND MODES (See Table 3.)

Put a torque meter cassette in the cassette holder of the unit, and see that the measured torque in each mode is normal as shown in Table 3.

Mode	Torque meter cassette	Measured torque
Playback	TW-2111	40 ~ 60 g-cm
Fast-forward	TW-2231	80 ~ 130 g-cm
Rewind	TW-2231	80 ~ 130 g-cm

Table 3

PINCH ROLLER PRESSURE CHECK

1. Place the unit in playback mode.
2. Push the pinch roller, at the point Ⓐ shown in Figure 3–1, by using a tension gauge (500 g) so that it will come off the capstan. Then, slowly release the tension until the pinch roller hits the capstan again (i.e., the pinch roller is about to rotate again). Check, then, the tension gauge is reading 300 g to 400 g.
3. If the reading is outside the range of 300 g to 400 g, replace the pressure spring of the pinch roller.

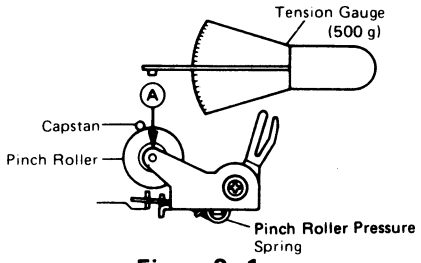


Figure 3–1

RECORD/PLAYBACK HEAD AZIMUTH ADJUSTMENT

1. Connect instruments as shown in Figure 3–2.
2. Adjust the head azimuth adjusting screw so that the output signal will have maximum waveform.

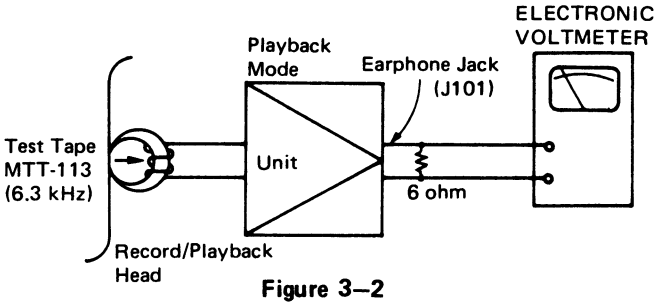


Figure 3–2

TAPE SPEED ADJUSTMENT

1. Connect instruments as shown in Figure 3–3.
2. Put a screwdriver (for high-frequency use) into the hole of the motor, and adjust the variable resistor so that the output frequency is 2955 Hz to 2980 Hz on frequency counter.

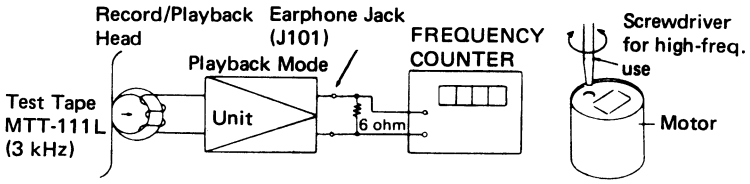


Figure 3–3

ELECTRICAL ADJUSTMENT

PLAYBACK AMPLIFIER SENSITIVITY CHECK

1. Connect instruments as shown in Figure 3–4.
2. Set the mode selector switch at tape, the volume control knob at max.
3. Playback a test tape (TEAC, MTT-118, 1 kHz, 250 pWb/mm,–10 dB prerecorded).
4. See that the electronic voltmeter is reading about 130mV.

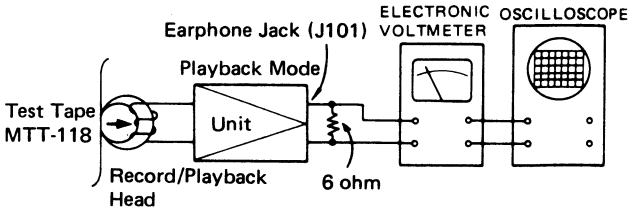


Figure 3–4

DIAL CORD STRINGING

1. Turn the drum fully clockwise and stretch its cord over the parts in the numerical order as shown in Figure 4–2.
2. Turn the tuning control shaft fully counterclockwise and fix its pointer to "0" point as shown in Figure 4–1.

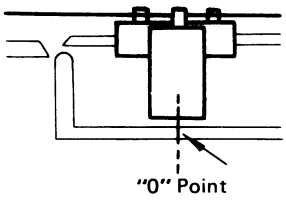
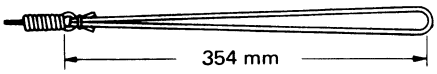


Figure 4–1



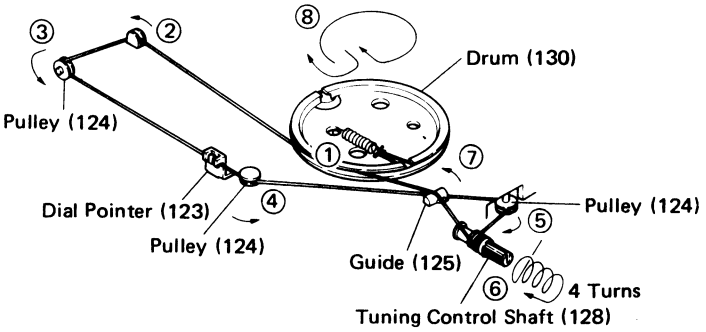


Figure 4–2

GENERAL ADJUSTMENT INSTRUCTION

Should it become necessary at any time to check the adjustment of this receiver, proceed as follows;

1. Set the volume control (VR101) to maximum.
2. Attenuate the signals from the generator enough to swing the most sensitive range of the output meter.
3. Use a non-metallic adjustment tool.
4. Repeat adjustments to insure good results.

AM IF/RF ADJUSTMENT

- Set the mode selector switch (SW101) to AM position.
- Set the signal generator to produce a signal of 400Hz, 30%, AM modulated.
- For adjustment in step 4, see Note A.

STEP	BAND	TEST STAGE	FREQUENCY	DIAL SETTING	ADJUSTMENT	REMARKS
IF (Connect instruments as shown in Figure 4–3.)						
1	AM	IF	455kHz	High end of dial	T3	Adjust for best IF curve.
RF (Connect instruments as shown in Figure 4–4.)						
2	AM	Band coverage	510kHz	Low end of dial	L5	Adjust for maximum output.
3	AM		1650 kHz	High end of dial	TC4	
4	AM	Tracking	600 kHz	600 kHz	L4	
5	AM		1400 kHz	1400 kHz	TC3	
6	Repeat steps 2, 3, 4 and 5 until no further improvement can be made.					

Note A Check the alignment of the receiver antenna coil by bringing a piece of ferrite (such as a coil slug) near the antenna loop stick, then a piece of brass. If ferrite increases output, loop requires more inductance. If brass increases output, loop requires less inductance. Change loop inductance by sliding the bobbin toward the center of ferrite core to increase inductance, or to decrease inductance.

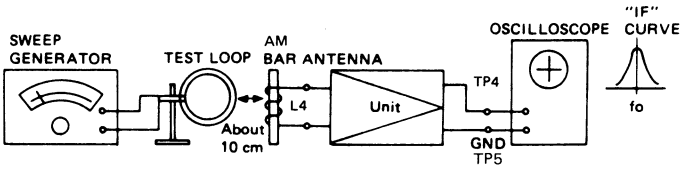


Figure 4–3 AM IF

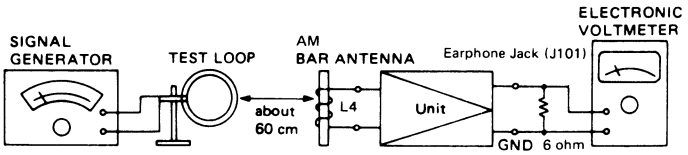


Figure 4–4 AM RF

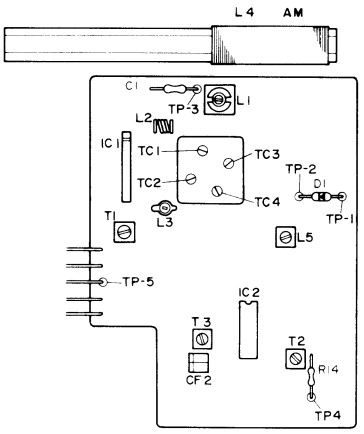


Figure 4–5 ADJUSTMENT POINT

FM IF/RF ADJUSTMENT

- Set the mode selector switch (SW101) to FM position.
- Set the signal generator to produce a signal of 400Hz, 30%, FM modulated.
- For adjustment in step 1, see Note B.

STEP	BAND	TEST STAGE	FREQUENCY	DIAL SETTING	ADJUSTMENT	REMARKS
IF (Connect instruments as shown in Figure 5–1.)						
1	FM	IF	10.7 MHz	High end of dial	T1 T2	Adjust for best "S" curve.
RF (Connect instruments as shown in Figure 5–2.)						
2	FM	Band coverage	87.1 MHz	Low end of dial	L3	Adjust for maximum output.
3	FM		109.0 MHz	High end of dial	TC2	
4	FM	Tracking	88 MHz	88 MHz	L2	
5	FM		108 MHz	108 MHz	TC1	
6	Repeat steps 2, 3, 4 and 5 until no further improvement can be made.					

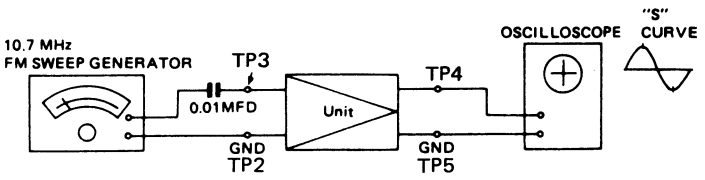


Figure 5–1 FM IF

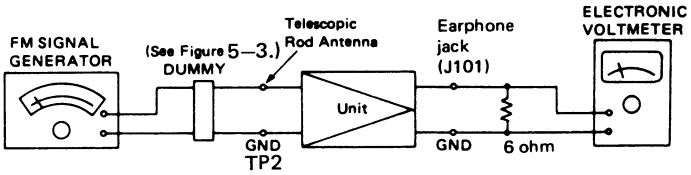


Figure 5–2 FM RF

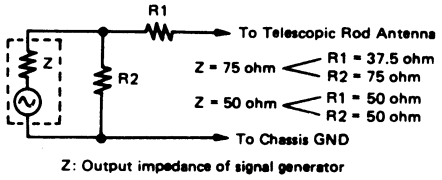


Figure 5–3 FM DUMMY

Note B

When ceramic filters other than the one (red) having the central frequency of 10.7 MHz are used, note that a marker (10.7 MHz) of FM sweep generator, if used, will be deviated – therefore, adjust the generator by putting off the marker.

Central frequency (fo)	Black	10.64 MHz ± 30 kHz
	Blue	10.67 MHz ± 30 kHz
	Red	10.70 MHz ± 30 kHz
	Orange	10.73 MHz ± 30 kHz
	White	10.76 MHz ± 30 kHz

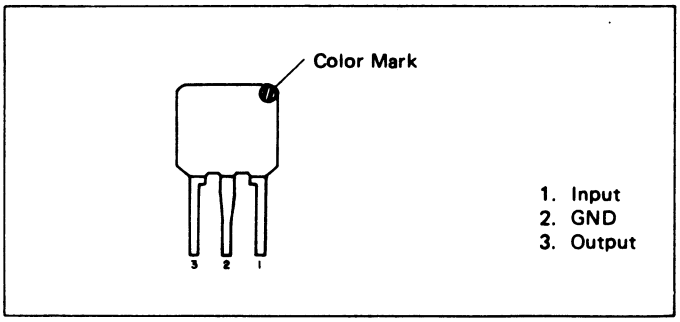
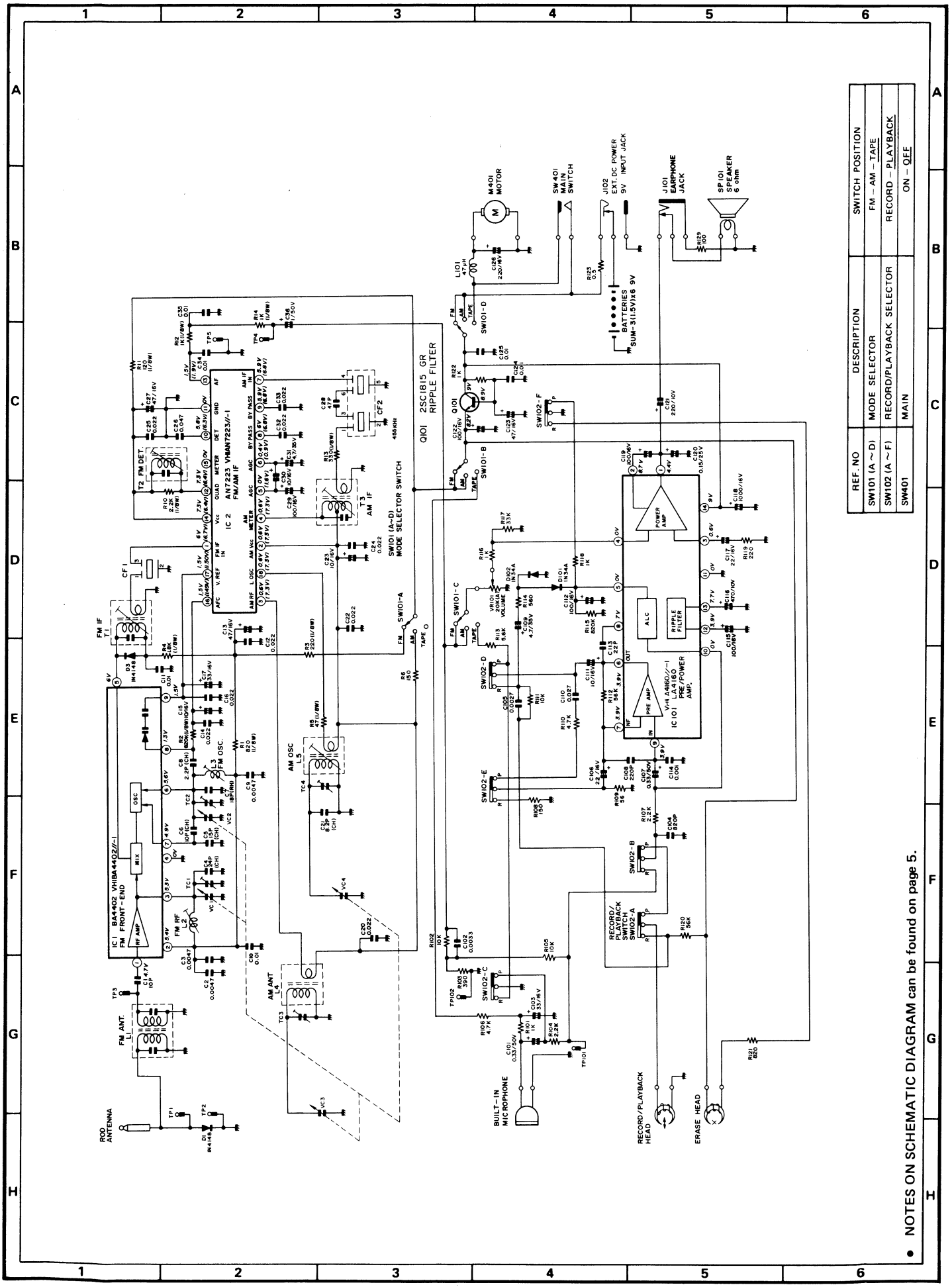


Figure 5–4

NOTES ON SCHEMATIC DIAGRAM

1. **Resistor:**
   Unless otherwise specified, resistors are shown in ohm, K (1000 ohm), and 1/4W type.
2. **Capacitor:**
   - Unless otherwise specified, capacitors are shown in microfarads, P = Picofarads
   - (CH), (RH) : Temperature compensation

- The voltages in each part are measured with no signal given, by using a digital multimeter with the unit in play mode. The following must also be observed:
  Radio circuit: Voltages without parentheses are for FM mode, and those with parentheses for AM mode
- Specifications or wiring diagram of this model are subject to change for improvement without prior notice.



REF. NO	DESCRIPTION	SWITCH POSITION
SW101 (A ~ D)	MODE SELECTOR	FM – AM – TAPE
SW102 (A ~ F)	RECORD/PLAYBACK SELECTOR	RECORD – PLAYBACK
SW401	MAIN	ON – OFF

• NOTES ON SCHEMATIC DIAGRAM can be found on page 5.

Figure 6 SCHEMATIC DIAGRAM

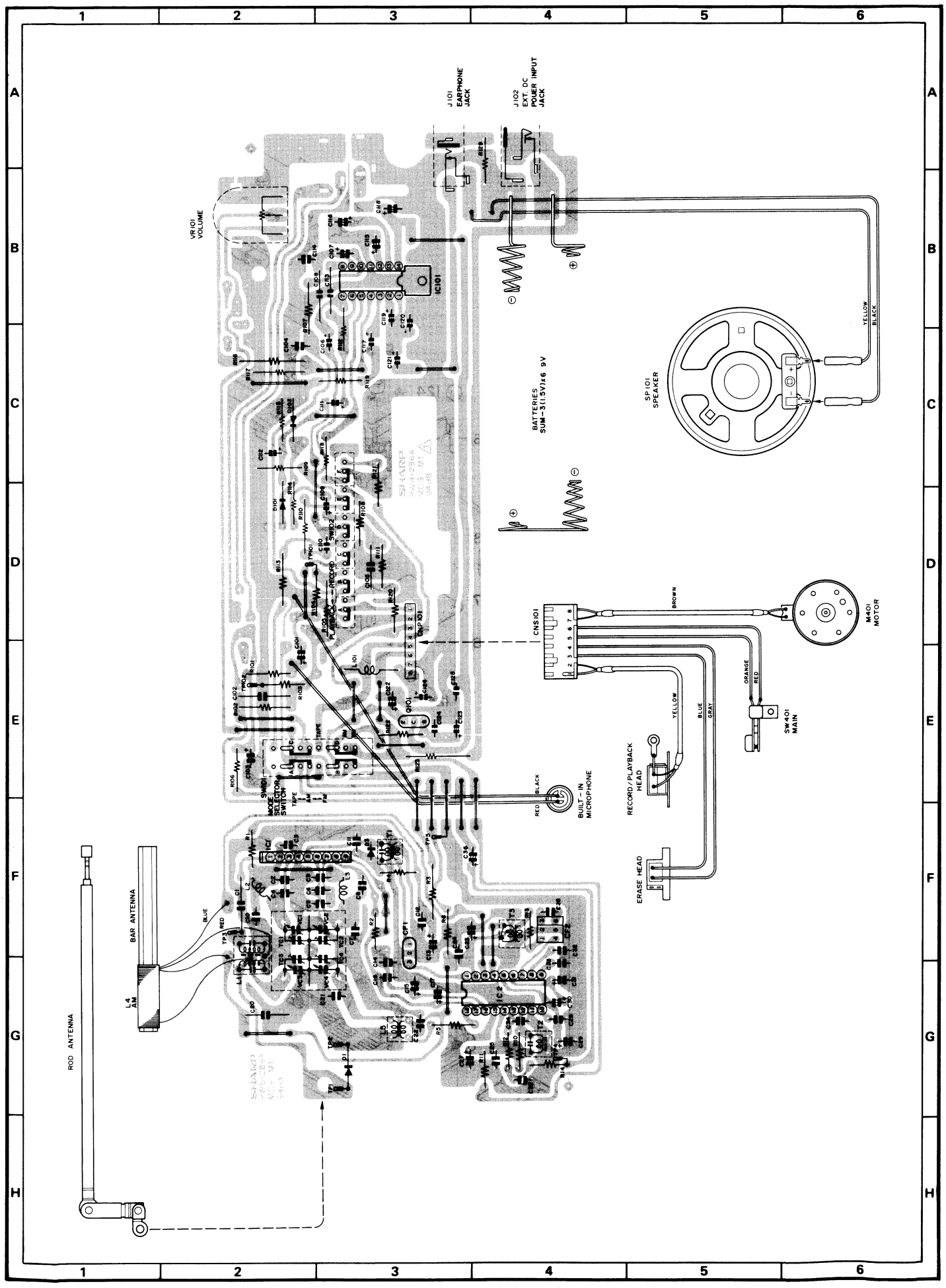
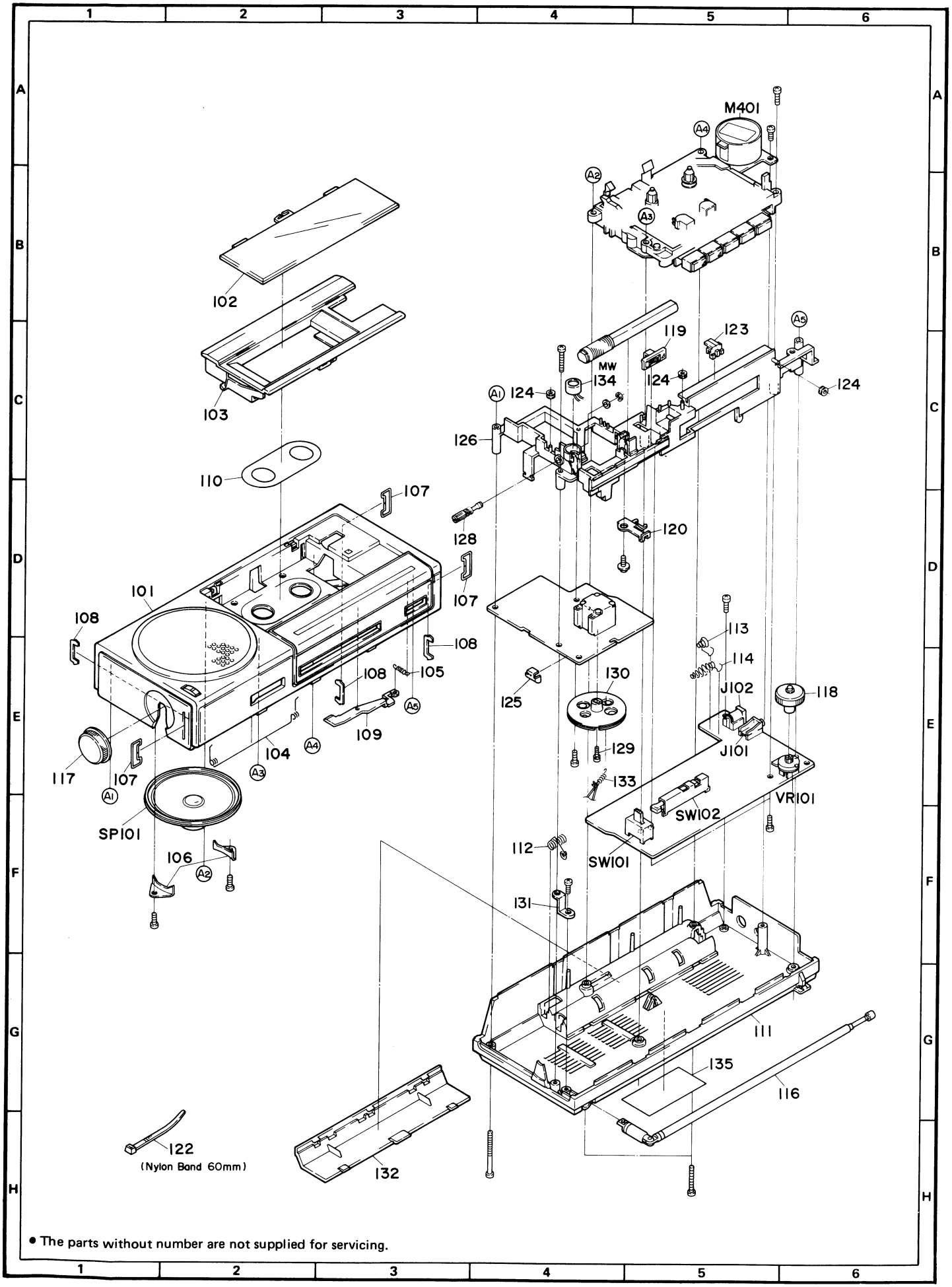
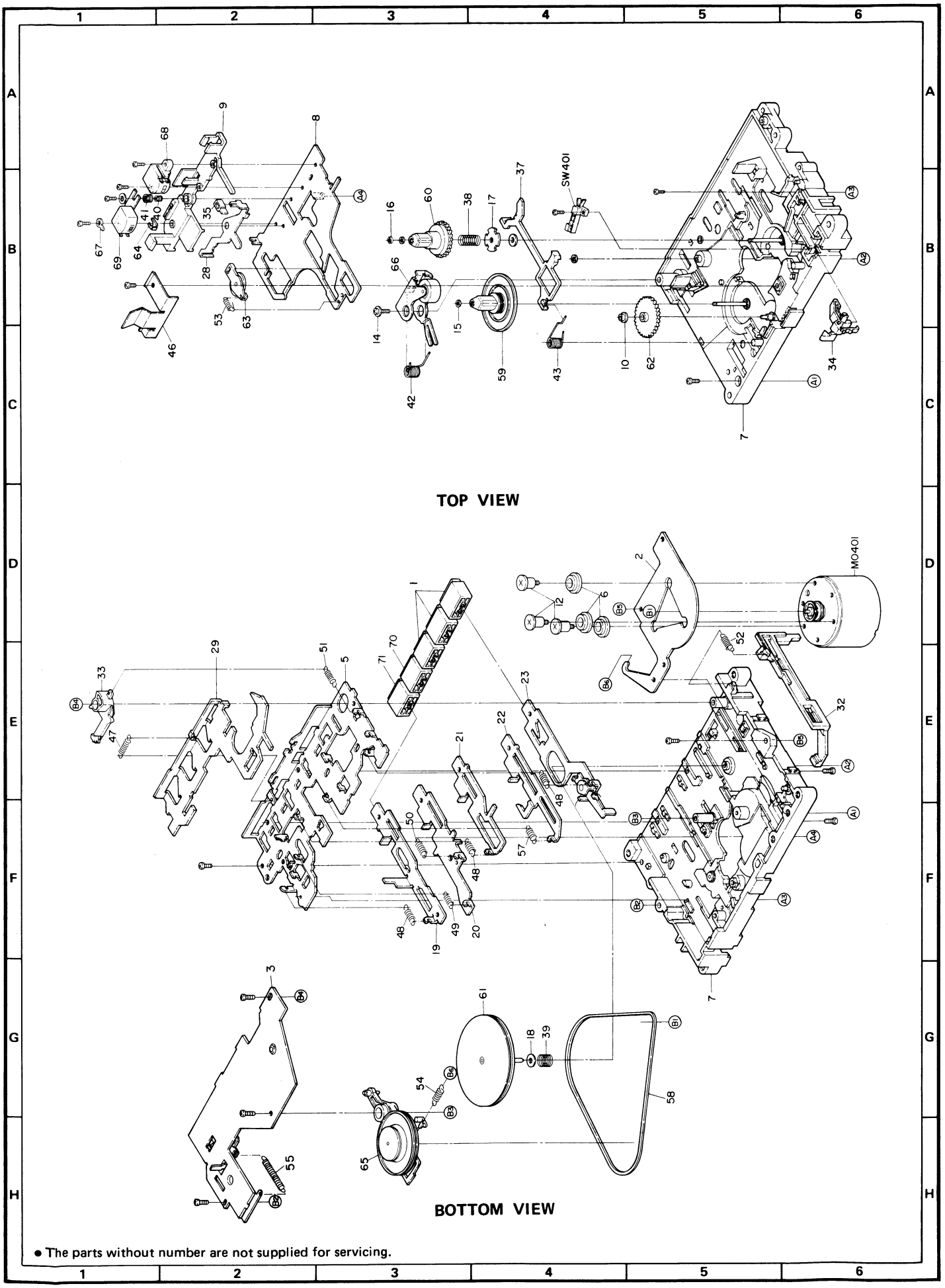


Figure 7 WIRING SIDE OF P.W. BOARD



• The parts without number are not supplied for servicing.

Figure 8 CABINET EXPLODED VIEW



• The parts without number are not supplied for servicing.

Figure 9 MECHANISM EXPLODED VIEW

REPLACEMENT PARTS LIST

"HOW TO ORDER REPLACEMENT PARTS"

To have your order filled promptly and correctly, please furnish the following information.

1. MODEL NUMBER
2. REF. NO.
3. PART NO.
4. DESCRIPTION

NOTE:
Parts marked with "△" are important for maintaining the safety of the set. Be sure to replace these parts with specified ones for maintaining the safety and performance of the set.

REF.NO.	PART NO.	DESCRIPTION	CODE
	INTEGRATED CIRCUITS		
IC1	VHIBA4402//-1	FM RF Amp., BA4402	AF
IC2	VHIAN7223//-1	FM IF/AM Circuit, AN7223	AH
IC101	VHILA4160//-1	Pre./Power Amp., LA4160	AH
	TRANSISTOR		
Q101	VS2SC1815GR-1	Silicon, NPN, 2SC1815 GR	AB
	DIODES		
D1	VHD1N4148//-1	Silicon, 1N4148	AA
D3	VHD1N4148//-U	Silicon, 1N4148	AA
D101,102	VHD1N34A///-1	Silicon, 1N34A	AB
	FILTERS		
CF1	RFILF0080AFZZ	Ceramic, 10.7 MHz, FM IF	AC
CF2	RFILA0085AFZZ	Ceramic, 455 kHz, AM IF	AE
	COILS		
L1	RCILA0620AFZZ	FM Antenna	AC
L2	RCILR0364AFZZ	FM RF	AA
L3	RCILB0672AFZZ	FM Oscillator	AC
L4	92LCOILA-286A	AM Bar Antenna	AK
L5	RCILB0626AFZZ	AM Oscillator	AC
L101	VP-CH470K0000	Noise Suppressor, 47μH	AB
	TRANSFORMERS		
T1	RCILI0157AFZZ	FM IF	AD
T2	RCILI0312AFZZ	FM Detector	AC
T3	RCILI0310AFZZ	AM IF	AC
	CONTROLS		
VC1,2, VC3,4, TC1,2, TC3,4	RVC-R0085AFZZ	Variable Capacitors, Tuning with Trimmers: TC1: FM RF Trimmer TC2: FM Oscillation Trimmer TC3: AM Antenna Trimmer TC4: AM Oscillation Trimmer	AL
VR101	92LVR-262A	20 kohms(A), Volume Control	AF
	ELECTROLYTIC CAPACITORS		
(All electrolytic capacitors are ±20% type.)			
C13	RC-EZA476AF1C	47μF, 16V	AB
C15	RC-EZA106AF1C	10μF, 16V	AB
C17	RC-EZA336AF1C	33μF, 16V	AB
C23	RC-EZA106AF1C	10μF, 16V	AB
C27	RC-EZA476AF1C	47μF, 16V	AB
C29	RC-EZA107AF1C	100μF, 16V	AB
C30	RC-EZA106AF1C	10μF, 16V	AB
C31	RC-EZA475AF1V	4.7μF, 35V	AB
C36	RC-EZA105AF1H	1μF, 50V	AB
C101	RC-EZA334AF1H	0.33μF,50V	AB
C103	RC-EZA336AF1C	33μF, 16V	AB
C106	RC-EZA226AF1C	22μF, 16V	AB
C107	RC-EZA334AF1H	0.33μF,50V	AB
C109	RC-EZA475AF1V	4.7μF, 35V	AB
C111	RC-EZA106AF1C	10μF, 16V	AB
C112	RC-EZA107AF1C	100μF,16V	AB
C115	RC-EZA107AF1C	100μF, 16V	AB
C116	RC-EZV477AF1A	470μF,10V	AC
C117	RC-EZA226AF1C	22μF,16V	AB
C118	RC-EZV108AF1C	1000μF, 16V	AD
C119	RC-EZA107AF1C	100μF, 16V	AB
C120	RC-AZ1005AFZZ	0.15μF, 25V	AC
C121	RC-EZA227AF1A	220μF, 10V	AB
C122	RC-EZA107AF1C	100μF, 16V	AB
C123	RC-EZA476AF1C	47μF, 16V	AB
C126	RC-EZV277AF1C	220μF, 16V	AB
	CAPACITORS		
(The terms CM and SC used here indicate the types of capacitor ceramic type and semiconductor type.)			
C1	VCCSAT1HL100J	10pF, 50V, ±5%, CM	AA
C2	VCTYPA1EX472K	0.0047μF, 25V, ±10%, SC	AA
C3	VCTYPA1EX472K	0.0047μF, 25V, ±10%, SC	AA
C4	VCCCPA1HH240J	24pF(CH), 50V, ±5%, CM	AA
C5	VCCCPA1HH150J	15pF(CH), 50V, ±5%, CM	AA
C6	VCCCPA1HH100J	10pF(CH), 50V, ±5%, CM	AA
C7	VCCRPA1HH180J	18pF(RH), 50V, ±5%, CM	AA
C8	VCCCPA1HH2R2C	2.2pF(CH), 50V, ±0.25pF, CM	AA
C9	VCTYPA1EX472K	0.0047μF, 25V, ±10%, SC	AA
C10	VCTYPA1EX103M	0.01μF, 25V, ±20%, SC	AA
C11	VCTYPA1EX103M	0.01μF, 25V, ±20%, SC	AA
C12,14, C16	VCTYPA1EX223M	0.022μF, 25V, ±20%, SC	AA
C20	VCTYAT1CY223N	0.022μF, 16V, ±30%, SC	AA
C21	VCCCPA1HH8R2D	8.2pF(CH), 50V, ±0.5pF, CM	AA
C22,24, C25	VCTYPA1EX223M	0.022μF, 25V, ±20%, SC	AA
C26	VCTYPA1EX473M	0.047μF, 25V, ±20%, SC	AA
C28	VCCSPA1HL470J	47pF, 50V, ±5%, CM	AA
C32,33	VCTYPA1EX223M	0.022μF, 25V, ±20%, SC	AA
C34,35	VCTYPA1EX103M	0.01μF, 25V, ±20%, SC	AA
C102	VCTYAT1EX332K	0.0033μF, 25V, ±10%, SC	AA
C104	VCKYPA1HB821K	820pF, 50V, ±10%, CM	AA
C105	VCTYAT1EX272K	0.0027μF, 25V, ±10%, SC	AA
C108	VCKYAT1HB221K	220pF, 50V, ±10%, CM	AA
C110	VCTYPA1EX273K	0.027μF, 25V, ±10%, SC	AA
C113	VCCSAT1HL220J	22pF, 50V, ±5%, CM	AA
C114	VCKYPA1HB102K	0.001μF, 50V, ±10%, CM	AA

REF.NO.	PART NO.	DESCRIPTION	CODE
C124,125	VCTYPA1EX103M	0.01μF, 25V, ±20%, SC	AA

RESISTORS

(Unless otherwise specified resistors are 1/4W, ±5%, Carbon type.)

R1	VRD-ST2BB821J	820 ohms, 1/8W, ±5%, Carbon	AA
R2	VRD-ST2BB824J	820 kohms, 1/8W, ±5%, Carbon	AA
R3	VRD-ST2EE221J	220 ohms	AA
R4	VRD-ST2BB182J	1.8 kohms, 1/8W, ±5%, Carbon	AA
R5	VRD-ST2BB470J	47 ohms, 1/8W, ±5%, Carbon	AA
R6	VRD-ST2EE151J	150 ohms	AA
R10	VRD-ST2BB222J	2.2 kohms, 1/8W, ±5%, Carbon	AA
R11	VRD-ST2BB121J	120 ohms, 1/8W, ±5%, Carbon	AA
R12	VRD-ST2BB102J	1 kohm, 1/8W, ±5%, Carbon	AA
R13	VRD-ST2BB331J	330 ohms, 1/8W, ±5%, Carbon	AA
R14	VRD-ST2BB102J	1 kohm, 1/8W, ±5%, Carbon	AA
R101	VRD-ST2EE102J	1 kohm	AA
R102	VRD-ST2EE103J	10 kohm	AA
R103	VRD-ST2EE391J	390 ohms	AA
R104	VRD-ST2EE222J	2.2 kohms	AA
R105	VRD-ST2EE103J	10 kohm	AA
R106	VRD-ST2EE472J	4.7 kohms	AA
R107	VRD-ST2EE222J	2.2 kohms	AA
R108	VRD-ST2EE151J	150 ohms	AA
R109	VRD-ST2EE560J	56 ohms	AA
R110	VRD-ST2EE472J	4.7 kohms	AA
R111	VRD-ST2EE103J	10 kohm	AA
R112	VRD-ST2EE563J	56 kohms	AA
R113	VRD-ST2EE562J	5.6 kohms	AA
R114	VRD-ST2EE561J	560 ohms	AA
R115	VRD-ST2EE824J	820 kohms	AA
R116	VRD-ST2EE102J	1 kohm	AA
R117	VRD-ST2EE333J	33 kohms	AA
R118	VRD-ST2EE102J	1 kohms	AA
R119	VRD-ST2EE221J	220 ohms	AA
R120	VRD-ST2EE563J	56 kohms	AA
R121	VRD-ST2EE821J	820 ohms	AA
R122	VRD-ST2EE102J	1 kohm	AA
R123	VRD-ST2EE0R5J	0.5 ohms	AA
R129	VRD-ST2EE101J	100 ohm	AA

CIRCUIT PARTS

CNP101	QCNCM423HAFZZ	8 Pin Plug	AD
CNS101	QCNW-2131AFZZ	8 Pin Socket Assembly	AG
J101	QJAKE0071AFZZ	Jack, Earphone	AC
J102	QJAKC0053AFZZ	Jack, External DC Input Supply	AD
SW101 (A~D)	92LSWICH286A	Switch, Mode Selector	AK
SW102 (A~F)	92LSWICH262B	Switch, Record/Playback	AH
SW401	QSW-F0182AFZZ	Switch, Main	AC
M401	92LM-MOTOR262A	Motor (with Pulley)	AX
SP101	92LSP-262A	Speaker	AQ
	QCNW-2157AFZZ	Lead Wire, Speaker	AD

MECHANICAL PARTS

1	92LM-BUTON262A	Button, Operation	AB
2	LANGF0826AFFW	Bracket, Motor	AC
3	LANGF0822AFZZ	Flywheel Bracket Assembly	AC
5	LANGG0109AFZZ	Bracket, Operation Lever	AE
6	LBSHZ0086AFZZ	Cushion, Motor	AA
7	Not Available	Main Chassis Assembly	—
8	LCHSS0185AFFW	Sub-chassis	AD
9	LDAIH0061AFZZ	Head Base	AB
10	LRTNP0053AFZZ	Retaining Ring, Fast Forward Gear	AA
12	LX-BZ0451AFFD	Screw, Motor Retaining	AA
14	LX-HZ0056AFFD	Screw, Pinch Roller	AA
15	LX-WZ9064AFZZ	Washer, 1.5mm Dia. × 4mm Dia. × 0.5mm	AA
16	LX-WZ1070AFZZ	Washer, 1.5mm Dia. × 0.25mm	AA
17	LX-WZ9083AFZZ	Washer, Back Tension	AA
18	LX-WZ9084AFZZ	Washer, Flywheel	AA
19	MLEVF1557AFFW	Lever, Record	AB
20	MLEVF1457AFFW	Lever, Playback	AB
21	MLEVF1458AFFW	Lever, Rewind	AB
22	MLEVF1459AFFW	Lever, Fast Forward	AB
23	MLEVF1460AFZZ	Lever Assembly, Stop/Eject	AD
28	MLEVF1468AFFW	Lever, Sensor	AB
29	MLEVF1469AFFW	Lever, Lock	AC
32	MLEVP0430AFZZ	Lever, Cassette Holder Eject	AB
33	MLEVP0431AFZZ	Lever, Lock Release	AA
34	MLEVP0432AFZZ	Lever, Erase Prevention	AA
35	MLEVP0433AFZZ	Chip, Sensor	AA
37	MLEVP0435AFZZ	Lever, Brake	AA
38	MSPRC0378AFFJ	Spring, Back Tension	AA
39	MSPRC0379AFFJ	Spring, Flywheel	AA
40	MSPRC0380AFFJ	Spring, Head Azimuth Adjust (Inside)	AA
41	MSPRC0381AFFJ	Spring, Head Azimuth Adjust (Outside)	AA
42	MSPRD0488AFFJ	Spring, Pinch Roller	AA
43	MSPRD0489AFFJ	Spring, Brake	AA
46	MSPRP0349AFFJ	Spring, Cassette Pressure	AB
47	MSPRT0976AFFJ	Spring, Lock Plate	AA
48	MSPRT0977AFFJ	Spring, Operation Lever	AA
49	MSPRT0978AFFJ	Spring, Playback Lever	AA
50	MSPRT0979AFFJ	Spring, Over Stroke	AA
51	MSPRT0980AFFJ	Spring, Lock Release Lever	AA
52	MSPRT0981AFFJ	Spring, Cassette Holder Lever	AA
53	MSPRT0982AFFJ	Spring, Playback Idler	AA
54	MSPRT0983AFFJ	Spring, Fast Forward/Rewind Roller	AA
55	92LM-CSPR262K	Spring, Record Lever	AA
57	MSPRT1002AFFJ	Spring, Fast Forward Lever	AA
58	NBLTK0248AFZZ	Belt, Flywheel Drive	AB
59	NDAIR0175AFSA	Turntable, Take-up	AE
60	NDAIR0176AFSA	Turntable, Supply	AC
61	NFLYC0110AFZZ	Flywheel	AG
62	NGERH0117AFZZ	Gear, Fast Forward	AA
63	NIDR-0084AFZZ	Idler, Playback	AE
64	PSPAD0050AFFW	Spacer, Head	AB
65	NROLW0024AFZZ	Roller, Fast Forward/Rewind Assembly	AG
66	NROLY0055AFZZ	Pinch Roller Assembly	AD
67	QHWS-2222AGFN	Lug, Earth	AA
68	92LM-ER-HD185A	Head, Erase	AF
69	92LM-RP-HD185A	Head, Record/Playback	AM
70	92LM-BUTON262B	Button, Play	AC
71	92LM-BUTON262C	Button, Record	AC

CABINET PARTS

101	92LCAB286FR-WH	Front Cabinet Assembly (QT-15XW)	AX
101	92LCAB286FR-RD	Front Cabinet Assembly (QT-15XR)	AX
101	92LCAB286FR-BL	Front Cabinet Assembly (QT-15XB)	AX
101	92LCAB295FR-BK	Front Cabinet Assembly (QT-15X(BK))	AX

QT-15XW

REF.NO.	PART NO.	DESCRIPTION	CODE
102	92LCT-COV262A	Decoration Plate, Cassette Holder (QT-15XW/XR)	AH
102	92LCT-COV264A	Decoration Plate, Cassette Holder (QT-15XB)	AH
102	92LCT-COV295A	Decoration Plate, Cassette Holder (QT-15X(BK))	AH
103	92LCT-HOLD262W	Cassette Holder (QT-15XW)	AM
103	92LCT-HOLD262R	Cassette Holder (QT-15XR)	AM
103	92LCT-HOLD262B	Cassette Holder (QT-15XB)	AM
103	92LCT-HOLD295B	Cassette Holder (QT-15X(BK))	AM
104	92LCSPR262A	Spring, Cassette Holder Opening	AC
105	92LCSPR262B	Spring, Lock Lever	AB
106	92LSUPT152A	Bracket, Speaker	AA
107	92LSUPT262A	Stopper, Carrying Belt	AD
108	92LSUPT262C	Bracket, Carrying Belt Stopper	AB
109	MLEVP0441AFZZ	Lock Lever	AB
110	92LMIRR262A	Mirror	AA
111	92LCAB265B	Rear Cabinet	AC
112	92LBSPR262A	Spring, Battery (+,−)	AC
113	92LBSPR262B	Spring, Battery (+)	AB
114	92LBSPR262C	Spring, Battery (−)	AB
116	92LR-ANT262A	Rod Antenna (QT-15XW/XR/X(BK))	AQ
116	92LR-ANT264A	Rod Antenna (QT-15XB)	AQ
117	92LKNOB262A	Knob, Tuning	AB
118	92LKNOB262B	Knob, Volume	AB
119	92LKNOB262C	Knob, Mode Selector	AB
120	92LLEV262A	Lever, Mode Selector	AC
122	LHLDW1075AFZZ	Nylon Band, 60mm	AA
123	HSSND0322AFSA	Dial Pointer	AD
124	92LROLL009	Pulley, Dial Stringing	AA
125	92LHOLD262B	Guide, Pulley	AB
126	92LS-CHS262A-W	Frame (QT-15XW)	AK
126	92LS-CHS262A-R	Frame (QT-15XR)	AK
126	92LS-CHS262A-B	Frame (QT-15XB)	AK
126	92LS-CHS295A-B	Frame (QT-15X(BK))	AK
128	92LSHAFT262B	Tuning Control Shaft	AB
129	92LS2R6S262A	Screw, Dial Stringing Drum	AA
130	92LWHEL035	Drum, Dial Stringing	AD
131	92LSUPT262B	Terminal, Rod Antenna	AB
132	92LLID262A	Lid, Battery Compartment	AF
133	92LCSPR035	Spring, Dial Stringing	AB
134	92LIN-MIC-262A	Built-in Microphone	AK
135	92LSPEC286A-WH	Plate, Specification (QT-15XW)	AC
135	92LSPEC287A-RD	Plate, Specification (QT-15XR)	AC
135	92LSPEC288A-BL	Plate, Specification (QT-15XB)	AC
135	92LSPEC302A-BK	Plate, Specification (QT-15X(BK))	AC

ACCESSORIES/PACKING PARTS

⚠	92LEP-15X	AC Adaptor(for EX)	BD
⚠	92LEP-15A	AC Adaptor (for Australia)	BD
	92LP-AD262A	Packing Add. Assembly (Top and Bottom)	AL
	92LP-CASE286A	Packing Case (QT-15XW)	AN
	92LP-CASE287A	Packing Case (QT-15XR)	AN
	92LP-CASE288A	Packing Case (QT-15XB)	AN
	92LP-CASE302A	Packing Case (QT-15X(BK))	AN
	92LINST280A	Operation Manual (for EX)	AK
	92LINST286A	Operation Manual (for Australia)	AK
	92LBAG152A	Polyethylene Bag, Unit	AC
	92LBAG002B	Polyethylene Bag, Operation Manual	AA
	TLABZ0520AFZZ	Label, Characterization	AC
	UBNDS0054AFSA	Carrying Belt (QT-15XW/XR)	AG
	UBNDS0054AFSB	Carrying Belt (QT-15XB)	AG
	UBNDS0054AFSC	Carrying Belt (QT-15X(BK))	AG
	HDECQ0195AFSB	Belt Holder (QT-15XW/XR/XB)	AB
	HDECQ0195AFSA	Belt Holder (QT-15X(BK))	AB

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